



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

TO Rev B Drawing 5/18/6/11
PRELIMINARY ISSUE

D5573-1
Job Sheet 178673

Accounting Job RD17-1046-01



Part No: D5573-1

Job Qty: 1 ea

Part Name: Base Bracket, Upper, Cable Cutter, LH



Part Weight: 0 lbs

Job Created: 6/5/18

Due Date: 6/8/18

Type: R+D

Status: Scheduled

Job Tracking No:

Created By: Marie Lajeunesse

Description:

Note: TBD DWG D5573-1 REV.b2 IPP REV A 18.02.05 NEW ISSUE RQ VERIFIED BY DP IPP REV b 18.06.04 dwg
rev.b2 DD VERIFIED BY DP

Ship Via:

POSITIVE RECALL

EFFECTIVE DATE 5/18/2018 AUTH 21

RELEASED 5 DATE 18/6/11
Priority: Medium

to Rev B Dwg.

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		6/8/18	0.00	0.00	Start Up Machining-1		
110	CNC Vertical Machining	1 pcs		6/8/18	0.00	0.30	HAAS 5 Axis		
120	QC	1 pcs		6/8/18	0.00	0.00	QC2 Machining-1		
130	QC	1 pcs		6/8/18	0.00	0.00	QC8 Machining-1		
135	Outsource	1 pcs		6/8/18			ATG001-VC	10	
140	Packaging	1 pcs		6/8/18	0.00	0.00	Packaging2		
150	QC	1 pcs		6/8/18	0.00	0.00	QC6		
180	Packaging	1 pcs		6/8/18	0.00	0.00	Packaging3-1		
190	QC21-SA	1 Ea		6/8/18	0.00	0.00	QC21		

Part Op 110 - 1-Machine per folio FB767 DWG REV: FOLIO REV: 2- deburr and break all sharp edges
Descriptions: 120 - QC2- Inspect parts off machine FAI/FAIB
130 - QC8- Inspect parts - second check
135 - Issue P/O to ATG : P0040123 Black Anodize & Prime as per Dwg. D5573 Certification of Conformity is required.
140 - Certification of Conformity is required.
180 - Identify as per dwg & Stock Location:
190 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M7075T6S1.750X3.000	7075-T6 Sheet 1.750" X 3.000"	.6000 ft (.6 ea)	90-Start up Operation	S078441

P0038697

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	M7075T6S1.750X3.000	1	23	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid tube ☐ Engineering ☐ Quality ☐ Other ☐																																										
Date : _____	Step #: _____	MRB (QSI042) Approval _____ Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																										
Description Work Order Deviation 																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Root Cause</th> </tr> </thead> <tbody> <tr> <td style="width: 33%;">Environment</td> <td style="width: 33%;">No Re-verification</td> <td style="width: 33%;">Pressure/Forced</td> </tr> <tr> <td>Design</td> <td>Operator</td> <td>Bending</td> </tr> <tr> <td>Doc/Data</td> <td>Offset/Setup</td> <td>Centre Not Concentric</td> </tr> <tr> <td>Equip/Tooling</td> <td>Supplier</td> <td>Cracks</td> </tr> <tr> <td>Handling/Pre</td> <td>Training</td> <td>Crimp/Kink/Ripple/Wave</td> </tr> <tr> <td>Material</td> <td>Use for Testing</td> <td>Cuffs</td> </tr> <tr> <td>Internal Transport</td> <td>Poor Information</td> <td>Crushing</td> </tr> <tr> <td>Tribal Knowledge</td> <td>Rushing</td> <td>Heat Treat</td> </tr> <tr> <td>LOA</td> <td>Product Improvement</td> <td>Wave/Twist in Tube</td> </tr> <tr> <td>Substation</td> <td>Process Improvement</td> <td>Marks/Chatter</td> </tr> <tr> <td>Past Expiry Date</td> <td>Manufacturing Process</td> <td></td> </tr> <tr> <td>Misidentified</td> <td>Past Due</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>OTHER : _____</td> </tr> </tbody> </table>			Root Cause			Environment	No Re-verification	Pressure/Forced	Design	Operator	Bending	Doc/Data	Offset/Setup	Centre Not Concentric	Equip/Tooling	Supplier	Cracks	Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Material	Use for Testing	Cuffs	Internal Transport	Poor Information	Crushing	Tribal Knowledge	Rushing	Heat Treat	LOA	Product Improvement	Wave/Twist in Tube	Substation	Process Improvement	Marks/Chatter	Past Expiry Date	Manufacturing Process		Misidentified	Past Due				OTHER : _____
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		OTHER : _____																																										

Date: 06/06/18

Instructions:

Exp Date: 06/06/2018

Inspector:

Revision: b2

Serial No/ Batch: S078455

Job No: 178673

Part: D5573-1



Container No: S078455



1270 Adornesh Street
 Hawkesbury, ON K6A 1K7
 CANADA
 TEL: 1 813 832-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

- ☐ Positioned Wrong
- ☐ Outside Dimensions
- ☐ Over/Under tolerance
- ☐ Part Incorrect
- ☐ Part Lost/Missing
- ☐ Part Moved
- ☐ Drawing
- ☐ Finish
- ☐ Misread
- ☐ Turning Sequence

DART AEROSPACE LTD		Work Order:	178 673
Description:		Part Number:	
Inspection Dwg:	Rev:	Page 1 of 1	

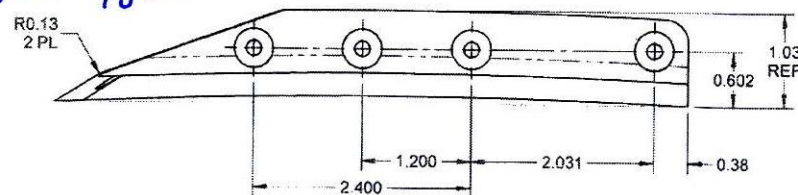
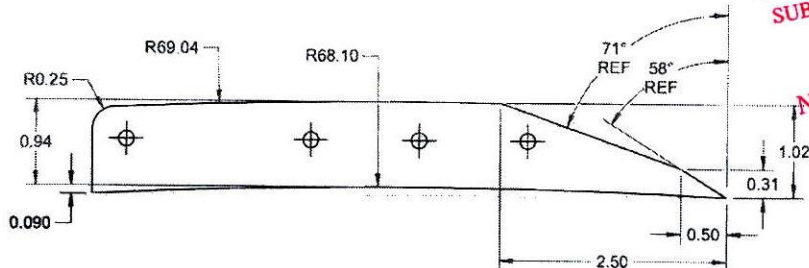
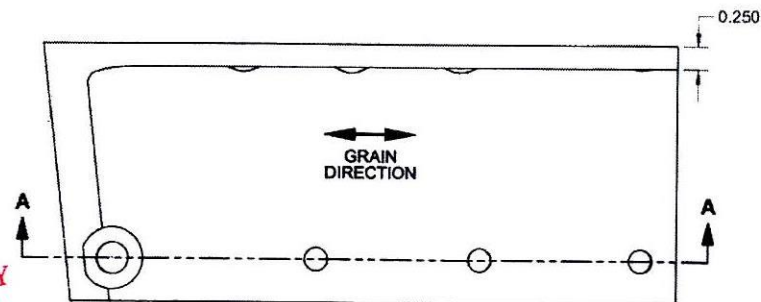
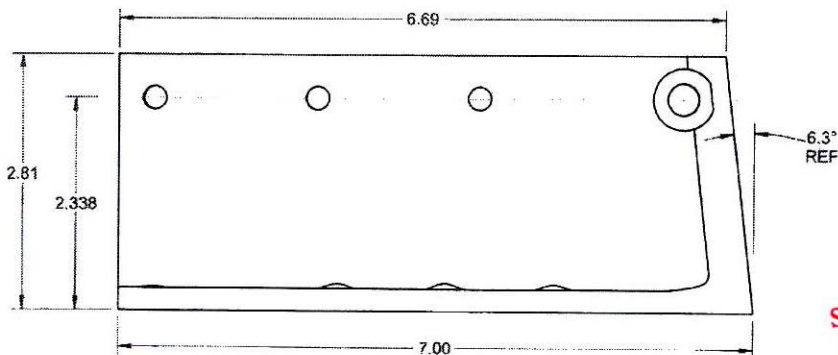
INSPECTION SHEET

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
6.69	+/- .030	6.688	✓		SLIO	Veru
2.81	+/- .030	2.812	✓			
2.338	+/- .010	2.337	✓			
7.00	+/- .030	7.000	✓			
.250	+/- .010	.252	✓			
.94	+/- .030	.941	✓			
.090	+/- .010	.090	✓			
2.50	+/- .030	2.500	✓			
.50	+/- .030	.500	✓			
.31	+/- .030	.310	✓			
1.02	+/- .030	1.027	✓			
R 68.10	+/- .030	68.100	✓			
R 69.04	+/- .030	69.040	✓			
R.25	+/- .030	.250	✓		Rad gauge	
R.13	+/- .030	.130	✓		"	
2.400	+/- .005	2.400	✓		SLIO	Veru
1.200	+/- .005	1.200	✓			
2.031	+/- .005	2.031	✓			
.38	+/- .030	.371	✓			
.602	+/- .010	.611	✓			
φ .682	+/- .010	.684	✓			
.135	+/- .010	.136	✓			
φ .348	+ .006 / - .001	.349	✓			
φ .430	+/- .010	.429	✓			
.100	+/- .010	.100	✓			
φ .170	+ .005 / - .001	.172	✓			
φ .257	+ .006 / - .001					
.250	+/- .010	.255	✓			
.41	+/- .030					

Measured by:	20 9-89	Checked by:	DAS T6 9-89	QC Inspector:	
Date:	18-06-06	Date:	13/6/06	Date:	

Engineering Approval: (If necessary)		Date:	
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Rev	Date	Change	Revised by	Approved
A	14.07.31	New Issue	KJ	

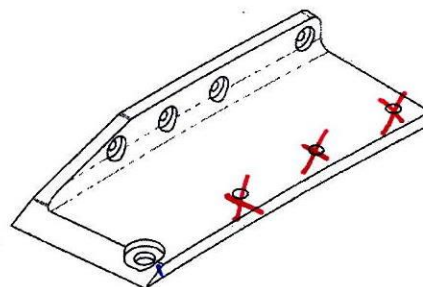


D5573-1 BASE BRACKET, UPPER, CABLE CUTTER (LH)

PRELIMINARY ISSUE
Rev. P52 4/14/64

NOTES:

- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR
PER AMS-QQ-A-200/11
REF DART SPEC M7075T6B
OR: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR
AMS 4045 OR ASTM B209
REF DART SPEC M7075T6S
- 2) FINISH: ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, COLOR = BLACK
PRIME USING MIL-PRF-23377, 1-2 MIL MAX, PER DART QSI 005 4.2.1.3.2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
- 7) WEIGHT: 0.55 lbs



B	CHG BASE HOLE SPACING TO MATCH OEM: 0.41 WAS 0.51 (ZN C1-2, C8-4)	CP	18.06.04
A	NEW ISSUE	CP	17.11.15
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	CP		
CHECKED	RF		
MFG. APPR.	RQ		
APPROVED	HS		
DE APPR.	CP		
DATE	18.06.04		

UNAPPROVED

DART AEROSPACE USA, INC.
EUGENE, OR

DRAWING NO. **D5573**
TITLE **BASE BRACKET, UPPER, CABLE CUTTER**
REV. B2
SHEET 1 OF 4
SCALE
NTS

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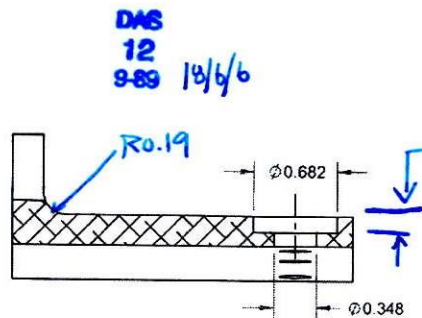
DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

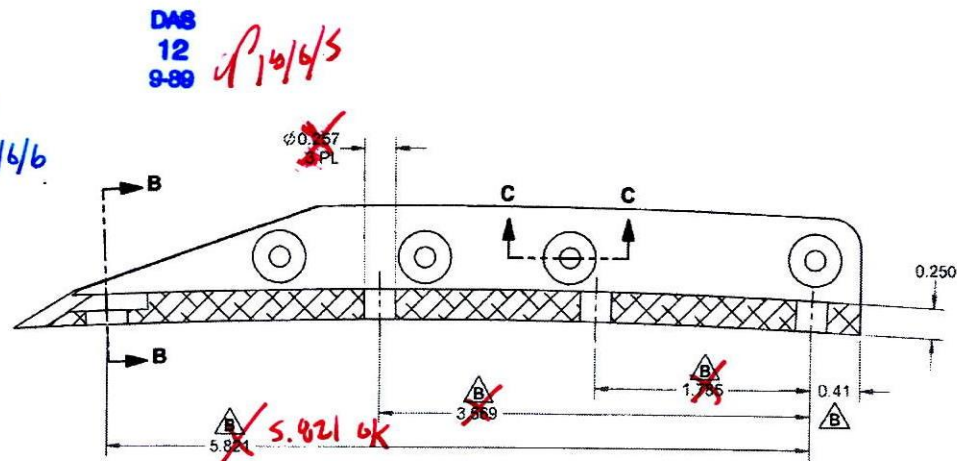
QA Closed: _____ Date: _____

Work Order update only ☐

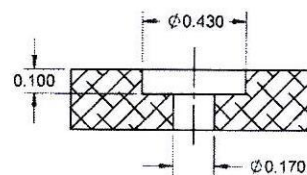
Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date : _____	Step #: _____	QTY Effective : _____			MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By	
					Lead hand / Supervisor Approval Verification	
					QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY				
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____						



SECTION B-B



SECTION A-A
SCALE 1.25X



SECTION C-C
4 PL
SCALE 2X

PRELIMINARY ISSUE
Rev. PBZ 9/14/4

UNAPPROVED

DESIGN	AJS	DART AEROSPACE USA, INC.	
DRAWN	CP	EUGENE, OR	
CHECKED	RF	DRAWING NO.	REV. B2
MFG. APPR.	RQ	D5573	SHEET 2 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.	CP	BASE BRACKET, UPPER, CABLE CUTTER	NTS
DATE	18.06.04	COPYRIGHT © 2017 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :	Step #:	QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation		Disposition				Completed By	
						Lead hand / Supervisor Approval Verification	
						QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :					
Misidentified ☐	Past Due ☐						



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

M7075T6S1.750X3.00

SO 78441
Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO038697	DIV001-VU	1	1	Net 35	M7075T6S1.750X3.000	7075-T6 Sheet 1.750" X 3.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive R				96	1/8/2018	48		S030258	Stock	1/8/2018	\$ 44.83 / R	1		\$2,151.96	Diversified Industrial Products	
Total:										96		48									\$2,151.96	

File: 1/9/2018 8:25 AM Dart.Plouffe.Son

Status: Receiving

Part: **M7075T6S1.750X3**

Created: 1/9/18 8:24 AM DART.PLOUFFE.SON



Serial No: **S030258**



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038697**

Supplier: DIV001-VU
Diversified Industrial Products
14 Connor Lane
Deer Park, NY 11803 USA
Phone: 516 822 8300
Fax: 516 822 8332

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038697

PO Date: 12/20/17

Due Date: 1/8/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
DEC 20 2017

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M7075T6S1.750X3.000		7075-T6 Sheet 1.750" X 3.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	96 ft	0 ft	96 ft	\$44.8325/ft	\$4,303.92

Grand Total: \$4,303.92

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/20/17 1:50 PM dart.lavoie.chantal



14 Connor Lane, Deer Park, NY 11729 Tel: 631.761.6200 Fax: 631.761.6201

Customer PO #	Order Date	SP
P0038697	12/20/17	AB

Sales Order Number	44870
Invoice Date	1/2/2018
Invoice Number	64915

Ship To:
DART AEROSPACE LTD. 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 CANADA

# Pkg.	1 BUNDLE
Weight	360 LBS

Ship Date	Shipped Via	Test Reports
1/2/2018	JOURNEY FRT	Y

Item #	Order Qty	U/M	Description	Qty Shipped	Bal. on Order
1	96	FT	7075-T6 ALUMINUM, QQ-A-250/12 OR ASTM B-209 1.75" X 3" X 48" MILL: KAISER LOT #: 704550B3 SHIPPING SCHEDULE: 12 PCS - ASAP 12 PCS - WEEK OF 01/12/18	48	48

PACKING LIST
CERTIFICATE OF COMPLIANCE

We certify that the materials described above conform to the specifications stated.

Callie Vail

Quality Control Manager

SHIP TO:
DIVERSIFIED INDUSTRIAL PRODUCTS 14 CONNOR LANE DEER PARK, NY 11729
SOLD TO:
DIVERSIFIED INDUSTRIAL PRODUCTS 14 CONNOR LANE DEER PARK, NY 11729

**KAISER
ALUMINUM**
Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4478709

CUSTOMER PO NUMBER: 098007-3	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUNLOAD: 104048/16	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1242581-3	SHIP DATE: 20-SEP-2017	ALLOY: 7075	CLAD: BARE	TEMPER: T651
WEIGHT SHIPPED: 3766 LB	QUANTITY: 3 PCS EST.	TRUCK B/L #: 2069094	GAGE: 1.7500 IN (44.4500 MM)	PRODUCT DESCRIPTION: KaiserSelect Plate
			DIAMETER/WIDTH: 48.500 IN (1231.9 MM)	LENGTH: 144.500 IN (3670.3 MM)

MHU 2153028; LOT 704550B3; 3 pieces;

Certified Specifications

AMS 4045/RevL

AMS-QQ-A-250/ 2/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 704550B3 Cast 534

Drop 30

Test Results

Ingot 1

Parent Lot: 245163B1

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	80.8 : 81.6 (557 : 583)	71.2 : 72.3 (491 : 499)	12.5 : 13.4

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.13	1.4	0.03	2.6	0.20	5.8	0.02	0.01	0.01	TOT 0.03

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

DIVERSIFIED INDUSTRIAL PRODUCTS CORP.
CERTIFY THIS A TRUE COPY OF THE
MILL TEST REPORT USED TO FILL YOUR
ORDER.

Company DART AEROSPACE LTD.

PO# P0038697

Our Inv. # 64915

Qty. 48 FT

Part #

QC Dept. Cathie Vail

Cathie Vail

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70754651.750X3.000

PO / BATCH NO.: 038697/SC30258

DATE: JAN 09 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 48"
 QUANTITY INSPECTED: 48"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750
 THICKNESS RECEIVED: 1.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	AMS-QQ-A-250
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(X) N	Heat # 704550B3
CORRECT MATERIAL IDENTIFICATION	(X) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>1</u> <u>9-86</u>	SIGNED OFF BY: _____		
DATE: <u>JAN 09 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/17 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S XXX THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: XXX BY 4FT BY 8FT

RELEASED
2009-09-10

B	REFORMAT DVG. ADD B209 SPEC (2N DS-1). REF PAR 08-020A	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6S	REV. B SHEET 1 OF 1
TITLE 6061-T6 SHEET SPEC	SCALE NTS

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1/22/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due
PO038697	DIV001-VU	1	1	Net 30	7075-T6 1.750 X 3.000	7075-T6 Sheet 1.750" X 3.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft				96	1/8/2018	48		5834216	Stock	1/22/2018	\$ 44.83 / ft	0	
Total:										96		48							\$

Plex 1/22/2018 11:42 AM Dart Dubois Piusral



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038697**

Supplier: DIV001-VU
Diversified Industrial Products
14 Connor Lane
Deer Park, NY 11803 USA
Phone: 516 822 8300
Fax: 516 822 8332

PO No: PO038697

PO Date: 12/20/17

Due Date: 1/8/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
DEC 20 2017

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items											
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price	
1	M7075T6S1.750X3.000		7075-T6 Sheet 1.750" X 3.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	96 ft	0 ft	96 ft	\$44.8325/ft	\$4,303.92	
										Grand Total: \$4,303.92	

Recu 48 ft

SP 18-01-9

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/20/17 1:50 PM dart.lavoie.chantal



14 Connor Lane, Deer Park, NY 11729 Tel: 631.761.6200 Fax: 631.761.6201

Customer PO #	Order Date	SP
PO038697	12/20/17	AB

Sales Order Number	44870
Invoice Date	1/12/2018
Invoice Number	65066

# Pkg.	1 BUNDLE
Weight	360 LBS

Ship To:

DART AEROSPACE LTD.
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

Ship Date	Shipped Via	Test Reports
1/12/2018	JOURNEY FRT	Y

Item #	Order Qty	U/M	Description	Qty Shipped	Bal. on Order
1	96	FT	7075-T6 ALUMINUM, QQ-A-250/12 OR ASTM B-209 1.75" X 3" X 48" MILL: ARCONIC LOT#: 406161 SHIPPING SCHEDULE: 12 PCS - ASAP 12 PCS - WEEK OF 01/12/18	48 418/12 DAS 11 8-89 JAN 22 2018	0

PACKING LIST
CERTIFICATE OF COMPLIANCE

We certify that the materials described above conform to the specifications stated.

Cathie Vail
Quality Control Manager

CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material meet the composition limits and test the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or omissions on this certificate by any recipient may be punished as a felony under applicable law.

Per:

S. A. M.
Harold Schinnerer
Manufacturing Director - Davenport & Bettendorf

Terence Thom
Terence Thom
Quality Assurance Manager

3392610 Ship Date	0 B.I. No.	Invoice No.	Arconic No.	Item
2018-01-05	11613717	00000	1000966375-7	DP-66375-01-7
P.O. No./Order Contract No.	Customer	Arconic Item		

Page 1 of 2

Ship To:
DIVERSIFIED INDUSTRIAL PRODUCTS
14 CONNOR LANE
DEER PARK, NY 11729

Item Description
1.75 IN TK (+.055 -.055) X 48.5 IN W (+.3125 - 0.000) X 144.5 IN LN (+.5 -0.0) (N) A/T 7075
T651 RECTANGULAR MILL FINISH, SAWED AMS-QQ-A-250/12 REV A EXC_MRX,
OIL AMS4045 REV L EXC_MRX ASTM209 REV-14
(MARKED) KRAFT PAPER
INTERLEAVED MAX GROSS SKID WGT: 5000 LB QUAN TOL +/-
40 ± CQR 0246852 REV 02 CUST REQ 18-01-
01 *** W/E 18-01-06 ***

Num	Package Ticket	Lot	Weight	Quantity	UT	Inspector Clock Numbers
1	432949	406161	3716	3	PC	47390
2	432980	406161	3726	3	PC	47390
3	432989	406161	1252	1	PC	47390
			8694	7		

Notes for CQR: 0246852.2

PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ-A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12P. PROD UCT PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 P ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.

CQR: 0246852.2 -Specification Limits

Temp Dir	UTS	TYS	ELAD
	KSI	KSI	PCT
T651 Long Transv.	Max		
	Min 77.0	67.0	6

Chemical Composition	SI	FE	CU	MN	MG	CR	ZN	TI	Other Each	Other Total	Aluminum
Alloy 7075	Max	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15
	Min			1.2		2.1	0.18	5.1			REMAIN

DIVERSIFIED INDUSTRIAL PRODUCTS CORP.
CERTIFY THIS A TRUE COPY OF THE
MILL TEST REPORT USED TO FILL YOUR
ORDER.

Company	DART AEROSPACE
PO#	PO038697
Our Inv. #	65066
Qty.	48 FT
Part #	M7075T6S1.750X3.000
QC Dept.	<i>Cathie Vall</i> Cathie Vall

CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or omissions on this certificate by any recipient may be punished as a felony under applicable law.

For:

S. N. K.
Nancy Salomon
Manufacturing Director - Davenport & Bettendorf

Terence Thom
Terence Thom
Quality Assurance Manager

3392610 0
Ship Date B.L. No. Invoice No. Arconic No. Item
2018-01-05 11613717 00000 1000966375-7 DP-66375-01-7
P.O. No./Govt Contract No. Customer Arconic Item

Page 2 of 2

CQR: 0246852.2 -Specification Limits (cont.)

Lot: 406161 - Mechanical, Physical, Metallography, Quantometer Results

Temp	Dir	No-> Test	UTS KSI	TYS KSI	ELAD PCT
T651	Long Transv.	3	83.1	73.6	11.1
			83.3	74	11
			83.2	73.8	11.1

Cast Number	Chemical - QES	SI	FE	CU	MN	MG	CR	ZN	TI	Other	Each	Other	Total
H9436061	Actuals	0.08	0.26	1.6	0.00	2.5	0.20	5.6	0.02	< 0.05		< 0.15	

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 117075+651.750x3.000
 DATE JAN 22 2018

PO / BATCH NO. 038697/5034218

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 48'
 QUANTITY INSPECTED: 48'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750
 THICKNESS RECEIVED: 1.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	45Tm - A-250 QQ-A 250
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat# Lot# 406161
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>11</u> DATE: <u>9-89</u> DATE: <u>JAN 22 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: *rel* QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

△ SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

△ PART NUMBER: M7075T6S | TTT | X | W.WWW |
| THK | | WIDTH |

△ WHERE "TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

△ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19 *4p*
ECN 17-574

B	ADD-REF TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M7075T6S TITLE 7075-T6 SHEET/PLATE SPEC SCALE NTS	
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	LL		
APPROVED	WM		
DE APPR.	DS		
DATE	17.05.05		

APPROVED

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A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 915342

Date: 08-Jun-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
1 ea	Part: D5573-1 Base Bracket, Upper Cable LH Hard Black Anodize per MIL-A-8625F, Type II, Class 2, . Prime IAW Mil-P-23377 J Type I Class N; 1-2 mil max as per QSI 005 Job: 23219 PO: PO040123	Rev: A Line: 1	DAS 38 9-86 SPR-6-8
1 ea	Part: D5573-2 Base Bracket, Upper Cutter RH Hard Black Anodize per MIL-A-8625F, Type II, Class 2, . Prime IAW Mil-P-23377 J Type I Class N; 1-2 mil max as per QSI 005 Job: 23220 PO: PO040123	Rev: A Line: 2	
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>08/06/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
Made in Canada.			



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040123**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO040123
PO Date: 6/6/18
Due Date: 6/8/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	178673	D5573-1	Base Bracket, Upper, Cable Cutter, LH Issue P/O to ATG : _____ Black Anodize & Prime as per Dwg. D5573 Certification of Conformity is required.	Firmed	6/8/18	1 pcs	0 pcs	1 pcs	\$50.00/pcs	\$50.00
2	178602	D5573-2	Base Bracket, Upper, Cable Cutter, RH Issue P/O to ATG : _____ Black Anodize & Prime as per Dwg. D5573 Certification of Conformity is required.	Firmed	6/8/18	1 pcs	0 pcs	1 pcs	\$50.00/pcs	\$50.00
Grand Total:										\$100.00

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

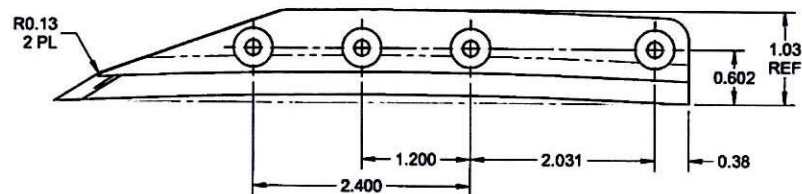
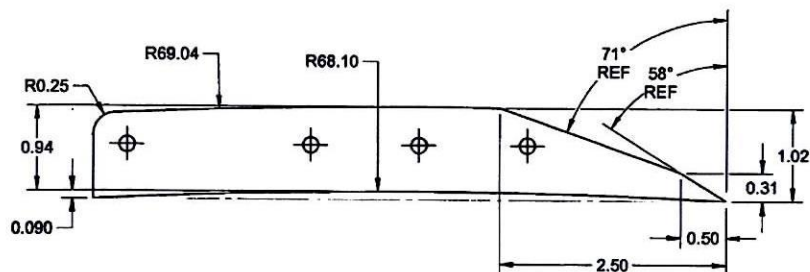
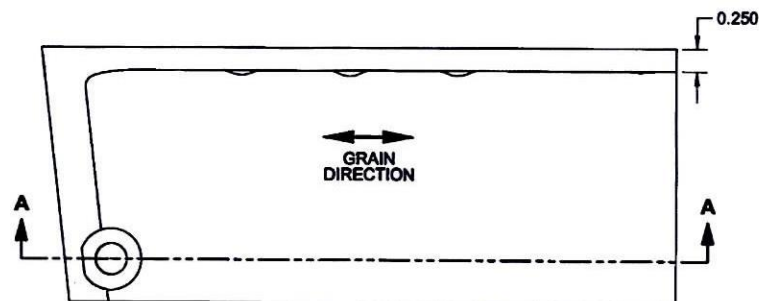
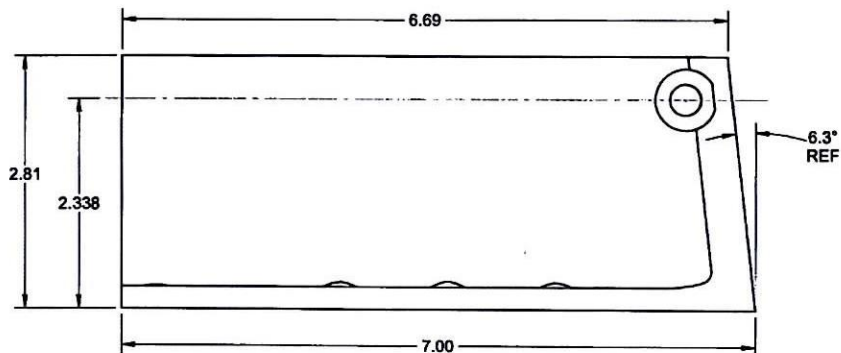
A041 quality management system
A042 dart notification by supplier
A043 retension of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

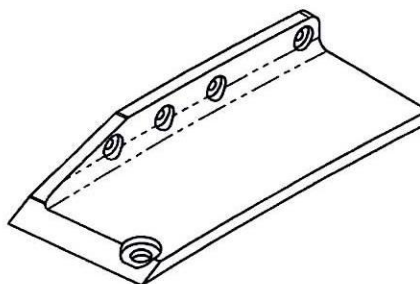
8 7 6 5 4 3 2 1



D5573-1 BASE BRACKET, UPPER, CABLE CUTTER (LH)

NOTES:

- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR
PER AMS-QQ-A-200/11
REF DART SPEC M7075T6B
OR: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR
AMS 4045 OR ASTM B209
REF DART SPEC M7075T6S
- 2) FINISH: ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, COLOR = BLACK
PRIME USING MIL-PRF-23377, 1-2 MIL MAX, PER DART QSI 005 4.2.1.3.2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
- 7) WEIGHT: 0.56 lbs



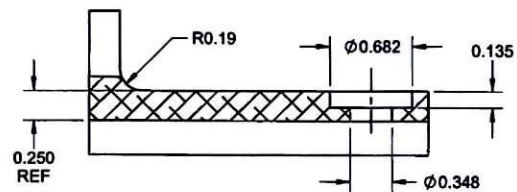
RELEASED

2018 JUN 11
ECN 18-743

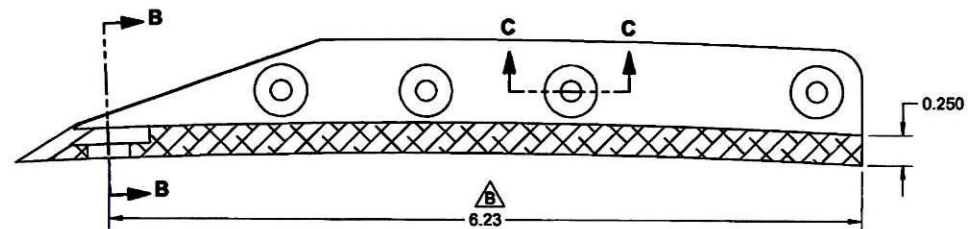
B	REMOVE (3) Ø0.257 HOLES IN BASE FLANGE	CP	18.06.04
A	NEW ISSUE	CP	17.11.15
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE USA, INC. EUGENE, OR DRAWING NO. D5573 TITLE BASE BRACKET, UPPER, CABLE CUTTER SCALE NTS REV. B SHEET 1 OF 4 COPYRIGHT © 2017 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	RQ		
APPROVED	HS		
DE APPR.	CP		
DATE	18.06.04		

APPROVED

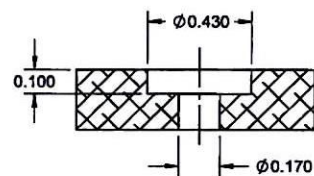
8 7 6 5 4 3 2 1



SECTION B-B



SECTION A-A
SCALE 1.25X



SECTION C-C
4 PL
SCALE 2X

RELEASED
2018 JUN 11

APPROVED	DESIGN	AJS	DART AEROSPACE USA, INC. EUGENE, OR	
	DRAWN	CP		
	CHECKED	ML	DRAWING NO.	REV. B
	MFG. APPR.	RQ	D5573	SHEET 2 OF 4
	APPROVED	HS	TITLE	SCALE
	DE APPR.	CP	BASE BRACKET, UPPER, CABLE CUTTER	NTS
	DATE	18.06.04	COPYRIGHT © 2011 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	